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ACCESSION NR: AP5016527		The second secon	
values of the entropy of both by the strong magnetic field of jumps, from which the firs H_{ν} , at which the most intensi	did not proceed at one definition (at H=H) appeared to	sitic transformation cause ite field, but in a series	
H _k , at which the most intensi duration of the magnetic impu accord with the thermodynamic Orig. art. has: 7 figures.	ve martensitic burst started	test. The critical field depended weakly on the	
ASSOCIATION: Institut fiziki	metallov AN SSSR (Institute	of Physics of Motols Av	
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L 10285-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/GG

ACC NR: AP5025320 SOURCE CODE: UR/0126/65/020/003/0373/0378

AUTHOR: Fakidov, I. G.; Volegov, L. P.; Krasovskiy, V. P.

44.55 44.55

ORG: Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSER)

TITLE: Magnetoelastic properties of antiferromagnetic compound MnAu₂

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 373-378

TOPIC TAGS: intermetallic compound, antiferromagnetism, elastic modulus, magnetic property, elasticity, antiferromagnetic material, shear modulus, manganese compound, gold compound

ABSTRACT: Polycrystalline cylindrical samples of MnAu₂ were made by smelting at 1100C a mixture of Mn (99.98% pure) and Au (99.99%), subsequent casting, and heat treatment providing magnetic properties described by A. Meyer and P. Taglang (J. Phys. Rad., 1956, 17, 457). The intermetallic compound had a helicoid spin structure, a Ngel temperature $T_N = 90C$, a threshold $H_t = 8000$ oe, and a density P = 15.4 g cm⁻³. The changes in the shear modulus G and the Young modulus E were determined under changing conditions of temperature (20 - 140C) and external magnetic field. The curves showing relative changes of shearing modulus G/G_0 Card 1/2 UDC: 538.65+539.32

1 10285-66

ACC NR: AP5025320

(Go at 20C was 11.56x10 dyne/sq cm) with temperature were plotted for the sample in the antiferromagnetic (H = 0) and ferromagnetic state (H = 18,000 ce). The curve H = 0 showed that G decreased with increased temperature, reached a minimum at 800C, acquired a maximum in the Neel point (TN = 96C), and decreased continuously in the paramagnetic region. The G of MnAu2 changed little with increased field to the threshold value (H = 8000 ce), then sharply decreased and reached a minimum at H = 16,000 ce. The shearing modulus G of MnAu2 in the ferromagnetic state (H = 18,000 ce) did not exhibit any noticeable anomalous changes during the antiferromagnetism ferromagnetism transition in the Curie point. The changes in anomaly of the shearing modulus during the antiferromagnetism-ferromagnetism transition were sharper than those of the Young modulus. This was related possibly to the helicoid distribution of magnetic moments. The anomalous behavior of the Young and shearing moduli was a result of digintegration of the helicoid spin structure brought about by the magnetic transformations antiferromagnetism \rightarrow paramagnetism (T= TN and H = 10), and antiferromagnetism \rightarrow ferromagnetism (T< TN and H > H₂). Orig. art. has: 5 figures.

SUB CODE: 20 / SUBM DATE: 14Sep64/

NR REF SOV: 004/ OTHER: 007

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	AUTHOR: Voro	nchikhin, L. D.; Zavadı	skiy, E. A.; Fakidov, I. G.		,
	ORG: Institu	te of Physics of Metals	s AN SSSR (Institut fiziki meta	llov An SSSR)	
	TITLE: Super	paramagnetism in <u>auste</u>	nitic steels 4,44,55		
			adeniye, v. 20, no. 5, 1965, 79	3-795	
	netic moment,	metal physical proper		<i>(</i> .	
	steels in ord	er to determine the ave	tudied in 40Kh2N2O and 50Kh2N22 erage magneric moments and dime	nsions of the loc	
	for constant mm (diameter)	magnetic fields and strand 10 mm (length).	clusters). Magnetization curve rongly changing ones. Sample d The data showed that the experi	imensions were 1 mental portions	
			ponding to the values of the fi- cels, can be described by the L		
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L 14991-66

ACC NR: AP5028570

$$\frac{7}{I_{\rm m}} = \frac{\ddot{\sigma}}{\sigma_{\rm m}} = L\left(\frac{MII}{kT}\right),\tag{1}$$

where k is Boltzman's constant, T is the absolute temperature, M is magnetic moment of the superparamagnetic particle and I_{∞} is saturation magnetization of the sample. Satisfactory agreement of the experimental and calculated curves exhibit the utility of equation (1) for calculating the magnetic moments of particles. Two boundary cases were considered, corresponding to the conditions when $MH/kT \ll 1$ (weak field) and $MH/kT \gg 1$ (strong field). Equation (1) for the case when $MH/kT \ll 1$ reduces to

$$T = \frac{NM^2}{3k} \frac{H}{T}.$$

where N is the number of particles per cm³; for the case when $MH/kT \gg 1$, the following was applicable:

$$\frac{7}{I_m} = \frac{\overline{\sigma}}{\sigma \overline{s}} = 1 - \frac{kT}{M} \frac{1}{H}.$$

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conclusions substar	ions of the particles were calculated the authors' hypothesis of the based on the calculated magnetic mation even in fields as high as 150.	he presence of paramagnetism moments and the impossibility	
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ACC NR: AP6023111 SOURCE CODE: UR/0126/66/021/003/0436/0441 AUTHOR: Voronchikhin, L. D.; Fakidov, I. G. ORG: Institute of Physics of Metals, AN SSSR (Institut fizik) metallov, AN SSSR) TITLE: Determining the latent heat of martensite conversion induced in steel by a SOURCE: Fisika metallov i metallovedeniye, v. 21, no. 3, 1966, 436-441 TOPIC TAGS: magnetic effect, martensitic transformation, constant magnetic field, pulsed magnetic field, calorimetry, nickel steel, high temperature phenomenon ABSTRACT: The authors study the thermal phenomena which accompany martensite conversion induced by a magnetic field in steels. The study confirms the previously known fact of stepwise formation of isolated martensite bodies and indicates that a similar mechanism of martensite conversion takes place regardless of the physical causes underlying the y-x cenversion. A method is proposed for determining the latent heat of partensite conversion due to the effect of the magnetic field in 40Kh2N2O and 58Kh4N8S3M steels. The chemical composition of these steels is given in the table below. It is shown that both pulsed and constant magnetic fields may initiate this conversion. The advantages of the proposed method for determining the latent heat of austenite-to-martensite conversion in a magnetic field are discussed in comparison with the calori-<u>Card</u> 1/2 2/2 MU

ACC NR: A16037098

SOURCE CODE:

UR/0056/66/051/005/1317/1320

AUTHOR: Zavadskiy, E. A.; Fakidov, I. G.

ORG: Institute of Physics of Metals, Academy of Sciences SSSR (Institut fiziki metal-lov Akademii nauk SSSR)

TITLE: Magnetic properties of the compound MngGe2 in strong magnetic fields

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 5, 1966, 1317-

TOPIC TAGS: manganese compound, germanium compound, magnetic property, magnetization, antiferromagnetism, magnetic moment

ABSTRACT: The purpose of the investigation was to determine the magnetic moment directly from measurements of the magnetization in the state of weak ferromagnetism. The tests were made in fields of intensity up to 300 kOe in the temperature interval from 370 to 77K. The measurements were made on polycrystalline samples using a pulsed magnetic balance and a piezoelectric pickup. The results showed a transition from the antiferromagnetic state to the state of weak ferromagnetism at the first critical point (160K). With increasing field, the transition temperature decreases. In the state of weak ferromagnetism, the dependence of the magnetization on the field is linear up to 50 kOe, after which saturation sets in. From the occurrence of the point of saturation it is found that at T > 100K the magnetic moment per manganese atom is 1.5 Bohr magnetons, whereas at lower temperatures a strong magnetic field causes

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ransition on the magnet of the magnet	ons per manganese strong magnetic of the magnetiza	omagnetic state into a state atom. The change occurring field close to 100K is contion and is accompanied by a authors thank V. N. Nove for help with the measure	ofirmed also by the a change in the	ne temperature transition plying the	-
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SOURCE CODE: UR/0181/67/009/001/0139/0144

AUTHOR: Zavadskiy, E. A.; Fakidov, I. G.

ORG: | Institute of Physics of Metals, AN SSSR, Sverdlovsk (Institut fiziki metallov AN SSSR)

TITLE: Magnetic properties of the alloy FeRh in strong magnetic fields

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 139-144

TOPIC TAGS: iron base alloy, rhodium containing alloy, saturation magnetization, temperature dependence, critical point, antiferromagnetism, phase transition

ABSTRACT: In view of discrepancies between the results of other investigators, the authors measured in detail the magnetization of FeRh over a wide range of magnetic fields and temperatures. The iron was alloyed with 53 at.% of rhodium in a high-frequency furnace and in an inert atmosphere. The measurements were made on solid samples by an induction method and on powders by means of a pulsed magnetic balance. The two measurement procedures were described by the authors earlier (FM v. 12, 832, 1961 and v. 21, 693, 1966). The measurements were made at temperatures 77 - 400K and in magnetic fields up to 330 kOe. The results showed that saturation set in at temperatures above the critical value at which the FeRh goes over from the antiferromagnetic into the ferromagnetic state. The dependence of the critical field on the temperature is a straight line with constant slope in the entire range of temperatures and magnetic fields. Temperature hysteresis of the electric resistivity and of the

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magnetization were clearly observed in the tests at the transition from the antiferromagnetic into the ferromagnetic state. It is pointed out that this linear dependence magnetic into the ferromagnetic state. It is pointed out that this linear dependence magnetic into the ferromagnetic state. It is pointed out that this linear dependence magnetic into the ferromagnetic structure at some value of the mag-changes if a change takes place in the magnetic structure at some value of the magnetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Afanetic field, causing the slope of the line to change. The authors thank A. Ya. Af

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公司的特殊<mark>的政治的企政的建筑的政治的企政的政治的政治的政治的政治的政治的</mark>,<mark>主义是政治的政治的政治的</mark>政治的政治的,实现的对于政治的政治的政治的对

L-14525-63 EVA(k)/EVP(k)/BDS/3V2/EEC(b)-2/ES(t)-2/EVT(1)ASD/RADC/APGC/AFWL/SSD P1-4/P1-4 GG/JHB/YG/ ACCESSION NR: AP3005341 AUTHOR: Kesk, N. Ye.; Korniyenko, L. S.; Prokhorov, A TITLE: Electron paramagnetic resonance and spin-lattice relaxation of the Nd5+ impurity ion in the CaWO, single-crystal lattice SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2303-2309 TOPIC TAGS: electron paramagnetic resonance, Nd3+ ion, spin-lattice relaxation, calcium tungstate crystals, neodymium-doped calcium tungstate ABSTRACT: A study of EPR spectra and spin-lattice relaxation of the Nd³⁺ ion in the CaWO, lattice has been carried out at liquid helium temperatures on the 3-cm band. The observed spectrum consisted of one intense like produced by even isotopes and two systems of eight components each produced by odd isotopes Nd 145 and Nd145. Angular dependence of the spectrum indicated a tetragonal symmetry of the crystal field surrounding the ion. Perpendicular and parallel g-factors and the superfine splitting factors for the odd isotopes were determined. It is shown that at temperatures above 6K the relaxation is determined by nonresonant two-phonon processes. Below that temperature, where single-phonon processes Card 1/2

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because of the phonon "	ervation of spin-lattice relaxation narrow bottleneck" effect. When the	becomes difficult	
or the spin system is w	reakly disturbed, as in the case of s	thermal equilibrium	3
end the temperature var	detion of the mater a boccieneck. err	ect is not observed.	
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ACCESSION NR: AP4013521

5/0181/64/006/002/0549/0553

AUTHORS: Kask, N. Ye.; Korniyenko, L. S.; Fakir, M.

TITIE: Electron paramagnetic resonance and spin lattice relaxation of the Nd3+ ion in single crystals of CaF2

SOURCE: Fizika tverdege tela, v. 6, no. 2, 1964, 549-553

10FIC TAGS: electron paramagnetic resonance, spin lattice relaxation, Nd³⁺ ion, CaF₂, single crystal, fluorite, tetragonal spectrum, tetragonal symmetry, orthorhombic spectrum, orthorhombic symmetry, absorption line, g factor, paramagnetic ion

ABSTHACT: The authors studied the spectra of ions in crystalline fields of totragonal and orthohombic symmetry at a frequency of 9500 megacycles. All crystals investigated showed identical spectra corresponding to the tetragonal and orthorhombic symmetry in the vicinity of the paramagnetic ion. With increase in the concentration of Nd ions from 0.3 to 1% the orthorhombic spectrum grow in intensity relative to the intensity of the tetragonal spectrum at a rate approximately proportional to the square of the concentration. The orthorhombic spectrum

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ACCESSION NR: AP4013521

may consequently be due to the replacement of three Ca²⁺ ions by two paramagnetic trivalent atoms. Heasurements of the principal values of the g factors gave g = 4.410 + 0.010 and g = 1.300 + 0.003. The width of the absorption line at half intensity and when the external magnetic field was parallel to the tetragonal axis of the crystalline field was found to be 10 cersteds. The dependence of the spin-lattice relaxation time on temperature is shown in Fig. 1 of the Enclosure. "The authors express their thanks to Professor A. M. Prokhorov for his useful discussions of the results of this work." Orig. art. has: 1 figure and 4 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fisiki MGU (Scientific Research Institute of Nuclear Physics MGU)

SUBMITTED: 13Sep63

DATE ACQ: O3Har64

ENCL: 01

SUB CODE: PH

NO REF SOV: OOL

OTHER: 004

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s/058/61/000/012/017/083 A058/A101

AUTHOR:

Fakirov, D.

TITLE:

Concerning the spatial distribution of the neutrino beam generated

in high-energy nucleon collisions

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 12, 1961, 87, abstract 12B382 (V"rkhu prostranstvenoto razpredeleniye na neutrinniya potok, poroden pri st"lknoveniyata na relativistichni nukloni. Godishnik Sofiysk, un-t Fiz.-matem. fak., 1958-1959 (1960), v. 53, no. 2

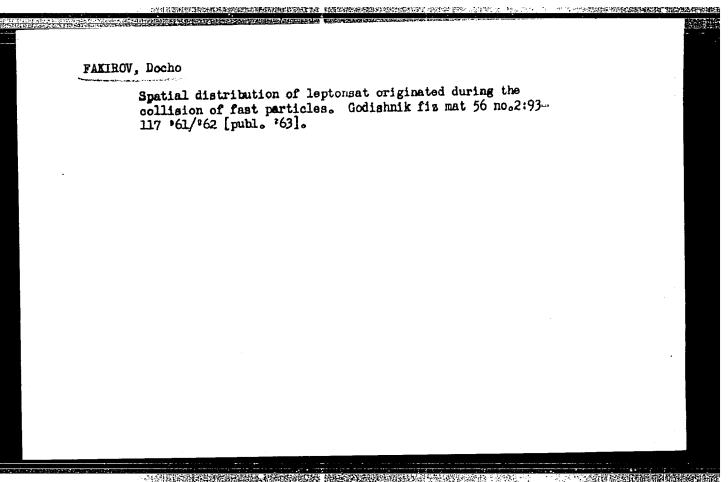
93 - 100, Bulg.; English summary)

TEXT: There was carried out a calculation of the spatial distribution of the neutrino beam generated in nucleon collisions as a result of decay of the pions produced in these collisions. The calculation is based on the Landau theory of multiple production. It is noted that neutrino-beam intensity reaches a peak in the target.

[Abstracter's note: Complete translation]

Card 1/1

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L 23,30-55 EWT(m)/EPF(c)/EWP(1)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5000920

\$/0020/64/159/004/0885/0886

AUTHOR: Kargin, V. A. (Academician); Fakirov, S. Kh.; Bakeyev, N. F.

TITLE: New method of direct observation of the structure of polymer solutions in electron microscope

SOURCE: AN SSSR. Doklady, v. 159, no. 4, 1964, 885-886, and insert facing p. 845

TOPIC TAGS: polymer solution structure, electron microscope technique, replica preparation, polymer solution

ABSTRACT: There have been recently new ideas developed concerning the structure of amorphous polymers. The latter are assumed to be ordered systems built of chains forming packets (see the latest work by the authors in Vysokomolek. Soyed. 5, 98 (1964)). In the present paper, the authors describe a new method of preparation of replicas for use in the electron microscope. A substance is used as a solvent which glasses easily on cooling, with the temperature of vitrification above the room temperature. After dissolution of the polymer, the

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solution is cooled below T_c . Uniform glass is then formed in which the structure of the polymer is fixed (frozen in). The glass is cleaved, and from the surface a replica is made. α -polybutilene with the viscosity 1.25 was investigated. The solvent was purified rosin with a softening temperature of about 75C. The electron-microscopic analysis shows that ordered supermolecular structures in the solution of polymers can be formed which consists of chain packets. Orig. art. has: 2 figures

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 22Jul64

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Card 2/2

L 61657-65 EWT (m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5015426 UR/0020/65/162/004/0851/0852 29

AUTHOR: Kargin, V.A.; Bakeyev, N.F.; Fakirov; S. Kh. Volynskiy, A.L.

TITLE: Electron-microscopic method of studying the supramolecular structure of polymers in solutions

SOURCE: AN SSSR, Doklady, v. 162, no. 4, 1965, 851-852, and insert facing p. 852

TOPIC TAGS: electron microscopy, polybutylene, polypropylene, molecular association, polymer structure

ABSTRACT: A new method of preparing samples for electron-microscopic studies of polymer solutions is proposed. A solvent of low critical temperature (propane, ethylene, etc.) is condensed in a glass capillary containing the polymer, after which the capillary is scaled and heated 20-25C above the critical temperature. When the end of the capillary is cut off, the solution of polymer in the gaseous solvents shoots out, striking the mesh (covered with a substrate) of the electron microscope. Using this technique, the authors studied two systems: a solution of poly-d-butylene in propane, and a solution of atactic polypropylene in propane (in concentrations from 3.05 to 3 wt.%). Photomicrographs show that the formation of ordered supramolecular structures occurs even in solutions of low concentrations. As the latter increase above 3%, the polymer does not dissolve completely, Card 1/2

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KARGIN, V.A., akademik; BAKETEV, N.F., FAKTROV, S. Mr.; NIKANOROVA, N.T.

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Structure of orystallizing polymer solutions. Dokl. AN SSSR 165 nc.3:604-506 N .65. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FAKIROV, V.

The breakwater strip of the dams and possibilities of strengthening it. p. 258 (GORSKO STOPANSTVO) Vol. 13, no. 6, June 1957, Sofiia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

Thermodynamic study of the surface layers of liquid solutions.

Part 2: Entropy of the surface layers in binary systems. Koll.

zhur. 27 no.6:869-875 N-D '65.

1. Leningradskiy universitet imeni A.A. Zhdanova. Surmitted

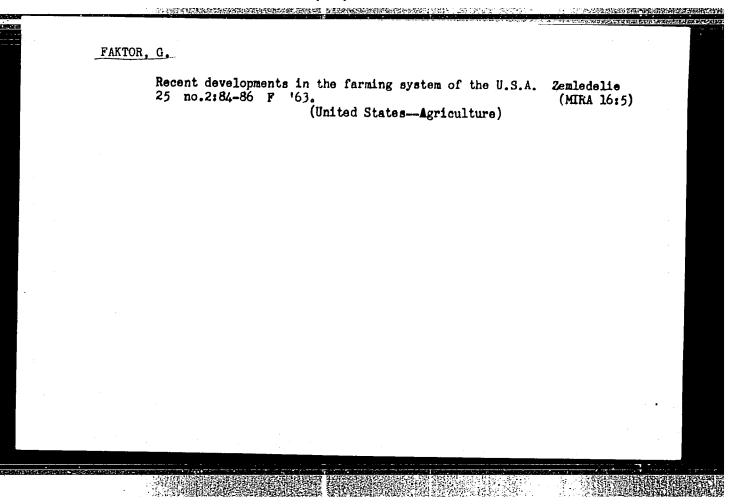
May 4, 1964.

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IJF(c) WW/JW/RM 54421-66 EWT(m)/T ACC NR: AP6010548 SOURCE CODE: UR/0069/65/027/006/0869/0875 $b^{(j)}$ AUTHOR: Rusanov, A. I.; Faktor, E. A. P) ORG: Leningrad University im. A. A. Zhdanov (Leningradskiy universitet) Thermodynamic study of surface layers of liquid solutions. Part 2. TITLE Entropy of surface layers in binary systems SOURCE: Kolloidnyy shurnal, v. 27, no. 6, 1965, 869-875 TOPIC TAGS: entropy, surface tension, thermodynamic calculation ABSTRACT: Formulas are derived for the calculation of the composition and entropy of surface layers of binary liquid solutions. Two methods, one based on calorimetric data and the other involving the use of vapor entropy, are employed. To illustrate the derived relationships, the entropies of the surface layers in the binary system NaBr - H2O are calculated as functions of concentration and temperature in the range of 25-50 °C, and the composition of the layers are calculated for 50 and 60 °C, assuming that H2O wapor is ideal and that the temperature dependence of the surface tension is linear. Values obtained at various temperatures for the molar surface entropies in the NaBr - H2O system by use of the two methods indicate that a slight entropy maximum may appear which becomes more appreciable as the temperature is lowered. The existence of this maximum is attributed to a rearrangement of the structure of the surface layer under the influence of ions of the salt, a process VDC: 541.18:536.7 Card 1/2

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similar to tables,	o that taking place in the body of the solution. Orig. art. has: 1 figure, and 15 formulas.	•
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FAKTOR, M.Sh.

Device for testing the magnets of a flaw detector. Put' i put.khos. 4 no.11:34 N 160. (MIRA 13:12)

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FAKTOR, M.Sh., inzh. (Odessa)

Germanium diodes in defectoscopes. Put' i put. khoz. 9
no.3;37 '65. (MIRA 18:6)

FAKTOR, Z.

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"Some little-known or new methods of measuring the properties of ferromagnetic materials."

p. 375 (Sdelovaci Technika) Vol. 5, no. 12, Pec. 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

CIA-RDP86-00513R000412410006-3 "APPROVED FOR RELEASE: 03/13/2001

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14.2200

Paktor, Zdeněk, Engineer

Equations of magnetostrictive transducers and methods AUTHOR:

for determining the basic constants of such transdu-TITLE:

Slaboproudý obzor, v. 23, no. 5, 1962, 288 - 294

TEXT: Dynamic equations for magnetostriction transducers are derived in a way that the influence is shown exerted by the transducer PERIODICAL: dimensions and wave shapes on the properties and measured transducer material parameters. An equivalent circuit is established and er material parameters. An equivalent circuit is established and some measuring methods are listed to determine the overall dependence between electrical values of the equivalent circuit and mechanice between electrical values of the equivalent circuit and mediants cal properties of the transducer, as well as the mutual dependence between some transducer material parameters. The magnetostriction between some transducer material parameters. transducer under investigation, has centralized mass and compliance and equations are derived for both longitudinal and torsional waves. Magnetic properties are studied on a specimen with open magnetic

Card 1/3

Equations of magnetostrictive ...

Z/039/62/023/005/004/004 D291/D301

transducer parameters. The obtained results are especially applicable to ferritic magnetostriction transducers operating at medium and low magnetic impedance values. There are 4 figures. The most important English-language publication is: Dynamical Physical Parameters of the Magnetostrictive Excitation of Extensional and Torsional Vibrations in Ferrites. Philips Res. Rep. 8, 1953, pp. 91-

ASSOCIATION: Výzkumný ústav telekomunikací, Praha (Telecommunication Research Institute, Prague)

SUBMITTED:

January 8, 1962

Card 3/3

42533

9.2120

2/014/62/000/011/001/002 E192/E382

AUTHORS: Faktor, Zdeněk, Engineer and Sálek, Viktor

TITLE: Ferrite E cores

PERIODICAL: Sdelovací technika, no. 11, 1962, 402 - 408

TEXT: Five different types of E cores made of ferrites, type il 10, are manufactured by the Sumperk Works in Czechoslovakia. Two such cores are usually used for winding a coil. The shape of a core is illustrated in Fig. 16 and the dimensions are as follows: A 20 to 55 mm; L 8.6 to 27.8 mm; S 5 to 22 mm; B 15 to 37.5 mm; C 5 to 17 mm; L 5.7 to 19 mm and r 2 to 2.5 mm. The most important

parameter of a core is its \$\pmu H/\turn^2\$ constant and this ranges from 0.35 to 4.2 for two E cores joined together. The cores can be used at frequencies up to 100 kc/s, where their loss angle tan 5 is less than 0.1. To wind a coil two E cores are placed together and joined by a suitable insulating varnish or upon (an epoxy resin); members of the individual cores. The \$\pmu H/\turn^2\$ constant is normally Card 1/3

Ferrite E cores

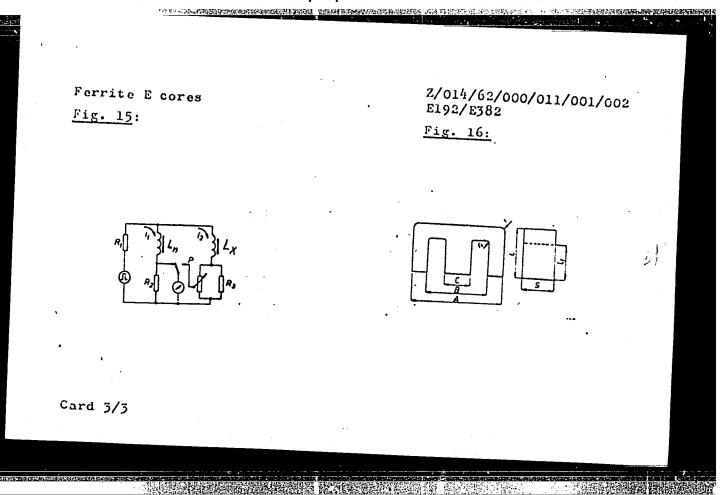
Z/014/62/000/011/001/002 E192/E382

is also measured for pulse operation by using the comparison method, illustrated in Fig. 15. In this, L_n is a linear inductance of about 2 mH wound on a double E core with an air gap of 2 mm; $L_{\rm K}$ is the inductance of a coil having a known number of pulses, wound on the core to be measured. R_2 and R_5 are small resistances, while R_1 is the internal resistance of the generator. The deflection of the meter is adjusted by the potentiometer so that it is identical for both positions of the switch P. The unknown inductance is:

$$L_{x} = kL_{n} \tag{12}$$

where $k = J_1/J_2$ where J_1 and J_2 are the amplitude of the magnetization currents in L_n and L_x . The cores can be used at frequencies up to 5 Mc/s but their tan δ might increase appreciably. There are 16 figures, and 2 tables.

Card 2/3



FAKTOR, Zdenek, inz.

Contribution to the automation of 300 component measurement. Automatizace 7 no.10:262-264 0 '64.

1. Research Institute of Telecommunication, Prague.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

SHCHEGLOV, Yu.A.; GOL'DENBERG, L.G.; FAKTOROVICH, A.A.; KRASNOLOB, K.Ya.

Automation of cut tomatoes receiving points and pumped transfer points of continuous lines in tomato processing. Izv. AN Mold. SSR. no.3:107:112 '63. (MIRA 17:12)

L 21664-66 ENT(m)/ETC(f)/ENG(m)/T DS

ACC NR: AP6000639 SOURCE CODE: UR/0407/65/000/001/0072/0073

AUTHOR: Lazarenko, B. R. (Kishinev); Fursov, S. P. (Kishinev);

Faktorovich, A. A. (Kishinev)

ORG: none

TITLE: Electrochemical pressure sensor 10

SOURCE: Elektronnaya obrabotka materialov, no. 1, 1965, 72-73

TOPIC TAGS: pressure measurement, gas pressure sensor, manometer

ABSTRACT: A two-electrode closed electrolytic cell (a 0.07-mm platinum wire serves as one of the electrodes) with a compressed gas over the electrolyte is recommended for measuring the gas pressure. MExperiments carried out at 0-3 atm pressure and at 200-760 torr vacuum exhibited a clear relation between the gas pressure and the effective current flowing in a simple RL circuit. The advantages of the device are: simplicity, multipurpose feature, and strong direct electric signal. Disadvantage: effect of electrolyte temperature on the current. Orig. art. has: 2 figures and 2 formulas.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 003

Card 1/1

Faktorovich, A. M.--"Toward diagnosis of neurobrucellosis," Trudy (derat. gos. med. in-t), Vol. VII, 1968, c. 209-12

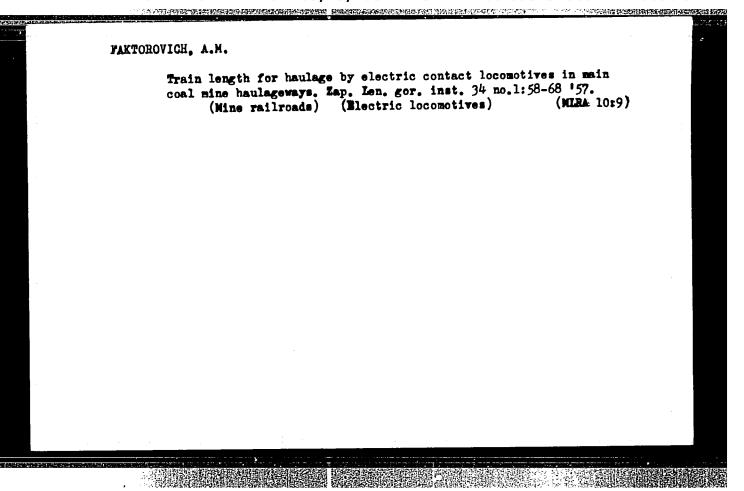
SO: U-3264, 10 April 1953, (Letopic 'Zhurnal 'nyah Statey, Mo. 3, 1949)

FARTOROVICH, A.M., kandidat tekhnicheskikh nauk

Unified method of calculating traction controls for rope haulage and conveyor belts. Zap.Len.gor. inst.32 no.1:112-115 '54.

(Mine haulage) (NLRA 9:1)

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	32 no.1:116-1	Conveying	machinery)	conveyor.	Zap.Len.gor.4 (MIRA 9:1	mt.)



ON THE PROPERTY OF THE PROPERT

KARELIN, Nikolay Timofeyevich; FAKTOROVICH, A.M., dots.; POLYAKOV, N.S., prof., retsenzent; RENDEVICH, K.A., dots., retsenzent; BILICHEMO, N.Ia., retsenzent; INVMEVICH, A.V., retsenzent; KULOMIYTSEV, A.D., otvetstvennyy red.; PROZOROVSKAYA, V.L., tekhn. red.; IL'INSKAYA, G.M., tekhn. red.

[Mine hamlage] Rudnichnyi transport. Moskva, Ugletekhizdat, 1958.
276 p. (Mine hamlage)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FAKTOROVICH, A.M., dotsent

Use of continuous action, bucket-type transportation arrangements for coal hoisting in vertical mine shafts. Izv. vys. ucheb. zav.; gor. zhur. no.8:132-138 '58. (MIRA 12:5)

1. Jeningradskiy gornyy institut.
(Mine hoisting)

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POLEYOY, Viktor Vasil'yevich; POKROVSKAYA, Vera Nikolayevna; PAKTOROVICH,

Abram Mikhaylovich; GERONT'YEV, V.I., prof., doktor tekhn.nauk, obshchiy
red.; MEDVELEV, L.G., otv.red.; KOLOMIYTSEV, A.D., red.izd-va;
SHKLYAR, S.Ya., tekhn.red.

[Cable belt conveyors] Lentochno-kanatnye konveiery. Pod obshchei red. V.I.Geront'eva. Moskva, Ugletekhizdat, 1959. 52 p. (MIRA 12:4) (Conveying machinery) (Mining machinery)

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Length of conveyer belts with one drive. Izv.vys.ucheb.zav.; gor. shur. no.8:63-68 '59. (MIRA 13:5)

1. Leningradskiy ordena Lenina i orden. dovogo Krasnogo Znameni gornyy institut imeni G.V. Plekhanova. nekomendovana kafedroy rudnichnogo transporta. (Conveying machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

SHENDEROVA, R.L.; FAKTOROVICH, A.M.

Examples of uses of conveyers in foreign mines. Gor.zhur. no.3:62-63 Mr '60.

1. Leningradskiy gornyy institut.

(Conveying machinery)

KABANOV, V.A., inzh.; FAKTOROVICH, A.M., dotsent

Ways of expanding the field of use of a multirope mine hoist with friction pulleys. Isv.vys.ucheb.sav.; gor.zhur. no.7:121-124 60. (MIRA 13:7)

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1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gormyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy gornoy mekhaniki.

(Hoisting machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

TYMOVSKIY, L.G., kand.tekhn.nauk; FAKTOROVICH, A.M., kand.tekhn.nauk; PERTEN, Yu.A., inzh.

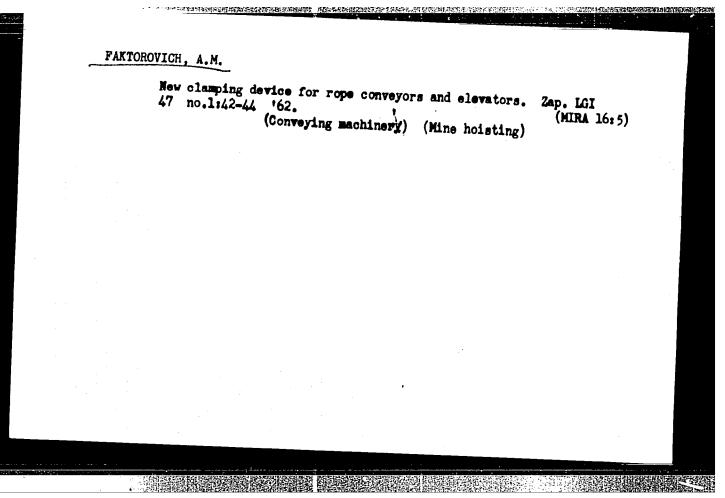
Hoisting of rock in deep strip mines using combined transportation systems. Gor.zhur. no.5:17-20 My 161. (MIRA 14:6)

1. Leningradskiy gornyy institut.
(Strip mining) (Mine haulage)

SERGEYEV, 0.I., inzh.; FAKTOROVICH, A.M., inzh.

Results of testing a new type of chute gate. Izv.vys.ucheb.zav.; gor.zhur. 5 no.9:87-89 '62. (MIRA 15:11)

l. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy rudnichnogo transporta. (Ore handling-Equipment and supplies)



FAKTOROVICH, A. S.

"The Importance of Vitamin C in the Clinical Course of Malaria in Children, With an Evaluation of the Phagocytic Capacity of the Organism." Cand Med Sci, Leningrad Pediatrics Medical Inst, From the Kuybyshevskaya Oblast Sci Res Inst of Maternal and Child Welfare, Leningrad, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

USSR/ Electronics - Germanium diodes Card 1/1 Pub. 89 - 12/24 Authors Vybornov, A., and Faktorovich, B. Title * The "Moskvich" receiver with germanium diode rectifier Periodical : Radio 5, page 28, May 1955 Abstract The advantages derived by using germanium high-voltage diodes in low-power rectifiers are discussed. One of the difficulties encountered in the use of flat germanium diodes DG-Ts24 is the dependence of their electrical properties upon the temperature of the surrounding redium, e. g., a reverse disruptive dicde voltage drops sharply with an increase in temperature. It is shown that one DG-Ts/4 diode at a temperature of † 52° C and rectified current of 50 memo is capable of sustaining a voltage 185-195 v. Diagram; illustration. Institution: Submitted

9(2)

SOV/107-59-4-41/45

AUTHOR:

Faktorovich, B.

TITLE:

A Transistorized Microphone Amplifier (Mikrofonnyy usilitel' na poluprovodnikovom triode)

PERIODICAL:

Radio, 1959, Nr 4, p 58 (USSR)

ABSTRACT:

The author suggests a transistorized amplifier for dynamic microphones, as shown in Figure 1. A P6G transistor is installed together with the other components within a MD-42 dynamic microphone. In this case, the amplifier and the microphone receive power from the same rectifier as shown by Figure 2. The author further suggests a microphone amplifier circuit with a P6D transistor which receives power from a 3-volt battery, as shown by Figure 3. The amplification factor of such a stage is 250 to 300. There are 3 circuit diagrams.

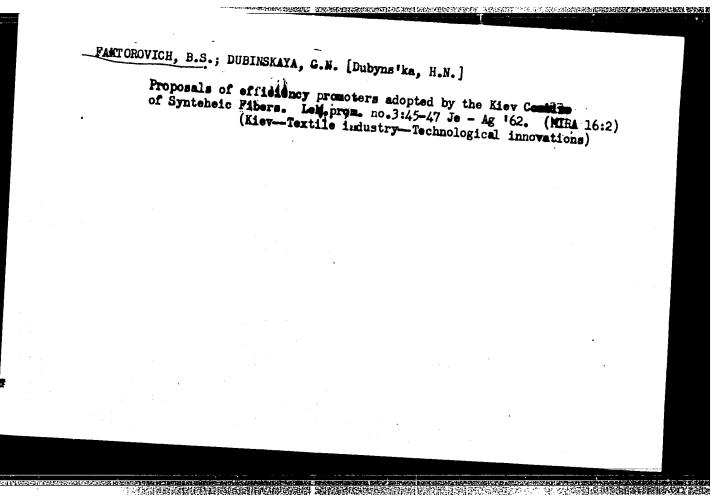
Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

OSTASHEVSKAYA, N.S.; OLENTSEVICH, N.A.; BASHKATOVA, A.S.; LAHDA, M.B.;
KUNSHCHIKOVA, A.A.; LISIN, D.M.; KUROV, V.V.; YEMEL'IANOV, N.A.;
FAKTOROVICH, B.A.; KUROKHTIN, A.N.

Industrial testing of Listvyanka anthracite for lining the bottom of aluminum electrolytic cells. TSvet.met. 38

(MIRA 18:12)



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FAKTOROVICH, Elyum Shimanovna[Faktorovych, B.Sh.]; YAROTSKIY, V.D.

[IArots'kyi, V.D.], inzh., red.izd-va; BEREZCVYY, V.N.,

[Berezovyi, V.N.], tekhn. red.

[Manufacture and finishing of viscose rayon]Obrobka viskosnoho showku. Kyiv, Dershtekhvydav URSR. 1962. 54 p. (MIRA 16:3) (Rayon)

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	SC: Tetopis' Zhurnal'nykh Statey, No. 20, 100' v., 1140.	:							
		:							
-		研究的影響							

PARTOROVICH, I.M.

Treatment of epidemic cerebrospinal meningitis in children. Pediatriia, Moskva No.4:62-63 July-Aug 51. (CIML 21:4)

1. Of the First Municipal Children's Hospital, Mikolayev. 2. Treatment with combined sulfonamide preparations and penicillin.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

PARTOROVICH, K.A.

Diseases of two-year eld rainbow trout raised en artificial feed. Vop.ikht. ne.6:156-164 '56. (NLRA 9:8)

1. Vsessyusnyy nauchne-issledevatel'skiy institut osernego i rechnege rybnege khosysystva --MIOREh.
(Trout--Diseases and pests)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

USSR / General Biology. Individual Development. Re-В generation.

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103304.

过一点自身公的复数形式用金型用金额。 教教学院医女公公公

Author

: Faktorovich, K. A. : Academy of Sciences USSB. Inst

: Regeneration of the Liver of Rainbow Trout. (Salme :r:deux) Title

Orig Pub: Dokl. AN SSSR, 1956, 110, No 2, 300-303.

Abstract: The regeneration of hepatic tissue was studied in 117 specimens of rainbow trout in the process of recovery from fatty degeneration of the liver produced by the use of a deficient diet. Sections of liver were fixed during the period of the disease and subsequently every month for 11 months. As a result of the disease a marked disturbance of the liver structure was observed: destruction of hepatic cells and replacement of them with insoluble fat,

Vsesoguznyy naushro-issledovateľskiy institut ozornogo i rechnogo rybnogo khozysystva. Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

PARTIE BEFORE THE

USSR / General Biology. Individual Development. Regeneration.

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103304.

Abstract: which was stained with Sudan III after fixation with Bouin's fluid. The author observed the gradual recovery of the typical liver structure and the elimination of the insoluble fat from the liver cells by means of its conversion to soluble fat and the uptake of the clumps of insoluble fat by phagocytes. A large number of the hepatic cell nuclei were in a state of amitotic division. In all of the material examined only a single mitosis was found. The author comes to the conclusion that the liver of the rainbow trout is capable of regeneration after marked damage to its microscopic structure. -- B. P. Solopayev.

Card 2/2

PARTOROVICH, K.A. Disorders in fat metabolism in the liver of rainbow trout raised on artificial feeds. Trudy sov. Ikht.kom. no.8:237-243 1 58. (MIRA 11:11)

1. Vecsoyusnyy nauchno-issledovatel'skiy institut osernogo i rechnogo rybnogo khosyaystva.

(Trout) (Fat metabolism) (Liver--Diseases)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FAKTOROVICH, K.A.

Lipoidic degeneration of the liver in the rainbow trout and its connection with the use of artifical feeds. Trudy sov. Ikht.kom. no.9:69-73 '59. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khosyaystva. (Trout--Diseases and pests) (Liver--Diseases)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FACTOROVICH, K. A., Cand Bio Sci -- "Histophysiological study of the liver of certain salmons in connection with their biology and artificial propagation." Len, 1961. (Len Vet
Inst of the Min of Agri RSFSR) (KL, 8-61, 239)

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

Importance of nutrition in the development of caroid degeneration of the liver in the rainbow trout. Trudy sov. Ikht. kom. no.14:215-219 '62. (MIRA 15:12) 1. Gosudarstventy nauchno-issledovatel'skiy institut ozernego i rechnogo rybnogo khosyaystva (GosNiCRKh). (Fishes—Food) (Trout—Diseases and pests) (Liver—Cirrhosis)

Third All-Union conference courses on problems of thermal building insulation.
Biul.stroi.tekh. 10 no.15:39 0 '53.

1. Lentermoproyekt. (Insulation (Heat))

PAKTOROVICH, Lev Mikhailovich, ; GOLYAND, M.M., redaktor; RUSAKOVA, L.Ya., vedushchiy redaktor; GENMAD'YEVA, I.M., tekhnicheskiy redaktor.

[Heat insulating materials and structures] Teploizoliatsionnye materialy i konstruktsii. Leningrad, Gos.nauchno-tekhnizd-vo neft. i gorno-toplivnoi lit-ry, leningr.otd-nie, 1957. 450 p.

(MIRA 10:5)

(Insulation (Heat)) (Insulating materials)

PAKTOROVICH, L.M., inzh.

Using aluminum foil fer heat insulation of hulls. Sudostroenie
(MTRA 12:1)
(Hulls(Mayal architecture)) (Insulating materials)

FAKTOROVICH, L. M.

Results of prolonged use of aluminum foil as an insulating material on ships. Mor.flot 19 no.1:14-16 Ja '59. (MIRA 12:3)

1. Nachal'nik Leningradskogo otdeleniya sudovoy izolyatsii VNIPI "Teploproyekt."

(Aluminum) (Metal foils) (Insulating materials)

(Ships—Equipment and supplies)

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FAKTOROVICH, Lev Mikhaylovich; RAUSH, O.I., nauchnyy red.; DOLMATOV,
P.S., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Designing and installing heat insulation] Proektirovanie i
montash teplovoi isoliatsii. Leningrad, Gos.nauchno-tekhn.
isd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1960.
439 p. (MIRA 13:5)

(Insulation (Heat))

PHASE I BOOK EXPLOITATION SOV/4947

Faktorovich, Lev Mikhaylovich

Proyektirovaniye i montazh teplovoy izolyatsii (The Design and Installation of Heat Insulators) Leningrad, Gostoptekhizdat, 1960. 439 p. 5,200 copies printed.

Scientific Ed.: O.I. Raush; Executive Ed.: P.S. Dolmatov; Tech. Ed.: I M. Gennad'yeva.

PURPOSE: This book is intended for engineers and technical personnel concerned with the application and use of heat insulation.

COVERAGE: The author gives basic information on heat insulating materials and discusses problems of the design and application of heat insulation used in shipbuilding, construction, refrigeration, the petroleum and power industries, etc. Recommendations on the design and selection of adequate types of heat insulation and materials are also included. No personalities are mentioned. There are 74 references, all Soviet.

Card 1/9-

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

e De	sign and Installation (Cont.) SOV/4947		
BLE	OF CONTENTS:		
or e wo	rd [by A.G. Tkachev, Doctor of Mechanical Sciences, Professor]	5	
ı. I.	Designing Heat Insulations	7	
1.	Makeup of the heat-insulation project	7	
2.	Designing the heat insulation of electric power stations		
	and of heat networks	12	
3.	Designing the heat insulation of naval power stations and	42	
	systems	63	
4-	Designing the heat insulation of ship compartments	95	
5•	· · · · · · · · · · · · · · · · · · ·	75	
_	satellites	17	
٥.	Designing heat insulation which prevents the condensation of moisture on the surface of insulated objects	79	
7	Designing heat insulation which prevents the condensation	17	
1.	of moisture on the internal surfaces of insulated objects		
	with humid gases	81	
8.	Designing heat insulation which prevents the freezing of		
	insulated objects	85	•
L C	45_		

FAKTOROVICH, Lev Mikhaylovich; RAUSH, O.I., nauchryy red.; DESHALYT, M.G., ved. red.; SAFRONOVA, I.M., tekhn. red.

[Brief mamual on heat insulation]Kratkii spravochnik po teplovoi izoliatsii. Leningrad, Gostoptekhizdat, 1962. 450 p.

(MIRA 15:8)

(Insulation (Heat))

MIROPOI'SKIY, Z.L.; FAKTOROVICH, L.Ye.

Generalization of experimental data on the effect of a heated channel length on critical heat flows. Dokl. AN SSSR 141 no.6:1353-1356 D '61. (MIRA 14:12)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo AN SSSR. Predstavleno akademikom V.F.Glushko.

(Heat--Transmission) (Hydrodynamics)

BELOTSERKOVSKIY, Grigoriy Bentsionovich; BABKIN, N.I., inzh.,
retsenzent; ZHDANOV, V.K., inzh., retsenzent; KALANTAROV,
M.N., inzh., retsenzent; TELEZHKO, M.I., inzh., retsenzent;
FAKTOROVICH, M.D., inzh., retsenzent; FEDOTOV, M.D., inzh.,
retsenzent; SAMOYLOV, G.V., inzh., red.; IVANOV-TSYGANOV,
A.I., kand. tekhn. nauk, red.; EDGOMOLOVA, M.F., red. izd-va;
ROZHIN, V.P., tekhn. red.

[Antennas]Antenny. Izd.2., perer. i dop. Moskva, Oborongiz,
1962. 491 p. (MIRA 16:2)

(Antennas (Electronics))

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AUTHORS:

Styrikovich, M.A., Corresponding Member, AS USSR

Faktorovich, L. Ye., Engineer

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TITLE:

The Influence of the Length of a Heated Section of Tube on the Magnitude of Critical Rates of Heat Transfer During Forced Motion of a Steam-Water Mixture (Vliyaniye

dliny obogrevayemogo uchastka truby na velichinu kriticheskikh teplovykh potokov pri vynuzhdennom

dvizhenii parovodyanoy smesi)

PERIODICAL: Teploenergetika, 1959, Nr 2, pp 83-88 (USSR)

ABSTRACT:

A good deal of work has been done on critical boiling rates during the forced flow of steam water mixture in pipes but all the work has been done on short lengths of tube, it being assumed that this would not affect the results. However, there is some indirect evidence that the length of the heated section does influence the magnitude of the critical rate of heat transfer. The object of the present work was to determine this influence during the forced flow of steam water mixture in pipes at pressures of 26, 100 and 180 atm with rates of flow of 850 and 3000 kg/m²sec and with steam contents

Card 1/4

from 0 to 1. The experimental section was made of

S0V/96-59-2-14/18

The Influence of the Length of a Heated Section of Tube on the Magnitude of Critical Rates of Heat Transfer During Forced Motion of a Steam-Water Mixture

seamless tube of stainless steel grade EYa-IT, of diameter 3.04 x 0.5 mm and of length 331, 160 or 40 mm. The tubes were heated by alternating current. Superheated steam at 300 atm and 500 to 600°C from a oncethrough boiler was delivered to the tubes. After steam supply conditions had become steady electric current was supplied to the tube and the heat flux was raised in small steps. Conditions were adjusted after each increase and this was continued until critical boiling occurred which was recognised by a sudden sharp increase in the tube wall temperature. The errors that might arise in the work are estimated. Curves of critical rates of heat transfer as function of steam content and 2/d ratio are given in Fig 1, 2 and 3. It will be seen that on all graphs over the investigated range of pressure, speed and steam content, as the tube length is increased from 40 to 331 mm the critical heat transfer rate is reduced by a factor of 1.5 to 5. It is explained

Card 2/4

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The Influence of the Length of a Heated Section of Tube on the Magnitude of Critical Rates of Heat Transfer During Forced Motion of a Steam-Water Mixture

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that experimental points that are underlined on the graph are lower than they should be. The influence on critical rates of heat transfer of pressure, speed and steam content, which have been described elsewhere are confirmed. Curves of critical rates of heat transfer as function of 2/d are given in Fig 4, from which it will be seen that the influence of this ratio is particularly great when the ratio is small. When the ratio is greater than 50 it has much less influence on the critical rate of heat transfer. Suggestions are made as to the reasons why the critical rate of heat transfer should depend on tube length when a two-phase medium is heated. It is concluded that in the case of forced motion of steam water mixture in a vertical steam raising tube 3 mm diameter at pressures of 26, 100 and 180 atm and flow rates of 850 and 3000 kg/m2sec and steam contents of 0 to 0.8 as the length of the experimental tube is diminished from 331 to 40 mm the values of critical rate of heat transfer increased by a factor of 1.5 to 5 with

Card 3/4

SOV/96...59-2-14/18

The Influence of the Length of a Heated Section of Tube on the Magnitude of Critical Rates of Heat Transfer During Forced Motion of a Steam-Water Mixture

the tube diameter used. For a tube of given diameter the influence of length on critical values of heat flow becomes less as the flow rate, pressure and steam content increase. Since the usual experimental installations have tubes that are very much shorter than are found in practice the influence of the length should be taken into account in design practice. There are 4 figures and 9 references of which 7 are Soviet and 2 English.

ASSOCIATION: Energeticheskiy Institut AN SSSR (Power Institute, AS USSR)

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STYRIKOVICH, M.A.; MIROPOL'SKIY, Z.L., kand.tekhn.nauk; SHITSMAN, M.Ye., kand.tekhn.nauk; MOSTINSKIY, I.L., inzh.; STAVROVSKIY, A.A., inzh.; FAKTOROVICH, L.Ye., inzh.

Effect of superimposed elements on the setting up of boiling crisis in the steam genera ing pipes. Teploenergetika ? no.5:81-88 My '60. (MIRA 13:8)

1. Energeticheekiy institut AN SSSR. 2. Chlen-korrespondent AN SSSR (for Styrikovich).

(Heat--Radiation and absorption) (Boilers)

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FAKTOROVICH, L.Ye., inzh.

Substitute for mineral powder. Avt. dor. 24 no.7:32 Jl '61.

(Sand) (Road materials)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FAKTOROVICH, M.E., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk.

Somuniform flow of fluids in a pressureless prismatic (cylindrical) closed channels. Ixv.VHII0 no.32 '47.

(Hydraulics)

(Hydraulics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

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USSR/Engineering - Hydraulic Engineering, Apr 51
Dams

"Hydrodynamic Pressure in Bottom Tunnels of Overflow Weirs," M. E. Faktorovich, Cand Tech Sci

"Gidrotekh Stroi" No 4, pp 37-39

Describes one possible method of detg hydrodynamic pressure in bottom tunnels of spillway dams for the case when tunnel gate is closed and spillway is over top of dam, and when considerable decrease in hydrodynamic pressure may sometimes cause vi-

bration of dam and affect the structure's endur-

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- 1. FAKTOROVICH M. Ye.
- 2. USSR (600)
- 4. Hydrodynamics
- 7. Damping of energy at the confluence of currents. Gidr. stroi. 21, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

PARTOROVICH, M.E., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Overflow dam with self-dissipation of energy. Izv.VNIIG

48:196-212 '52.

(Dame)

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FAKTOROVICH, M.E., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Forced notion of a liquid joined by a linearly changing discharge. Izv.VMIIG 50:44-57 '53. (MIRA 12:5)

(Hydrodynasics)

PAKTOROVICH, M.E., kandidat tekhnicheskikh nauk.

Nyakutric calculation of deep spillways, Gidr. stroi, 26 no.4r
43-45 Ap '57. (MIRA 10:6)

(Spillways)

FAKTOROVICH, M.E., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Calculating the conjugate state of head and tailwater for spillway dams with a slip-type outlet on the apron and use of the mutual impinging of streams for energy dissipation.

12v.VNIIG 58:177-186 '58. (MIRA 13:7)

(Spillways)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412410006-3"

FAKTOROVICH, M.E., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

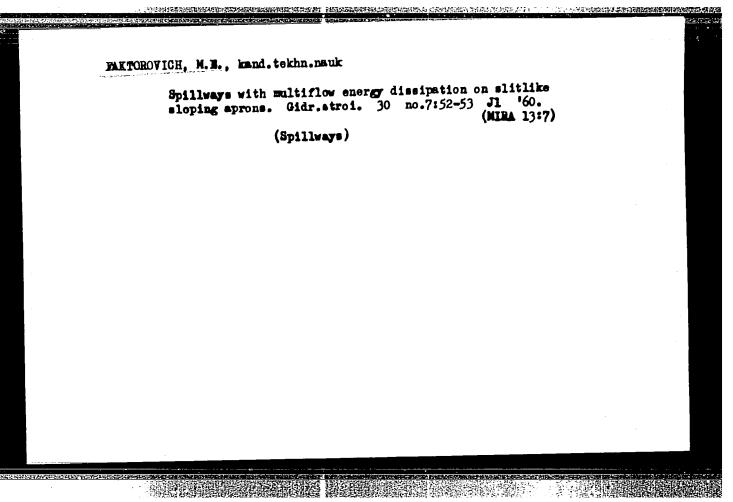
Investigating the interaction of joining streams of liquid

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with a possibility of bilateral enlargement in the vertical plane. Izv. VNIIG 61:17-30 '58. (MIRA 13:6) (Hydraulics)

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The siphon method of 165-169 '59. (Dams)	building dams across rivers.	Izv. VNIIG 62: (MIRA 13:6)



Method of making hydraulic calculations for a spillway dam with energy dissipation in several jets on a slotted discharge. Gidr. stroi. 33 no.11:39-41 N '62. (MIRA 16:1) (Spillways) (Hydraulics)

		Marie Carlo
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	Sutermining the hydrodynamic pressure behind the flat gates in pressure water conduits of any cross section. Izv. VNIIG 76:129-135 164. (MIRA 18:10)	
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FAKTOROVICH, M.G., insh.

Lowering the consumption of electric power by station auxiliaries of steam power plants. Energetik 3 no.6:1-5 Je '60.

(Steam power plants)

Measures for decreasing the expenditure of electric power on internal needs. Energetik 9 no.2:1-3 F '61. (MIRA 16:7)

(Electric power plants)